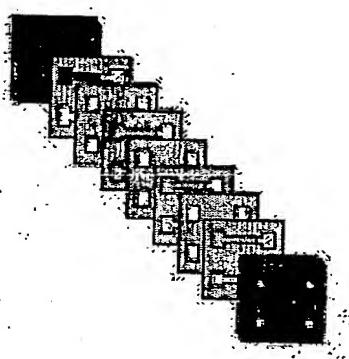


FIG. 1



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FIG. 2

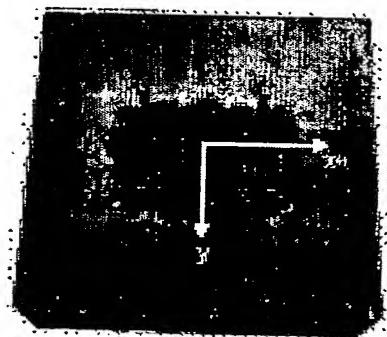
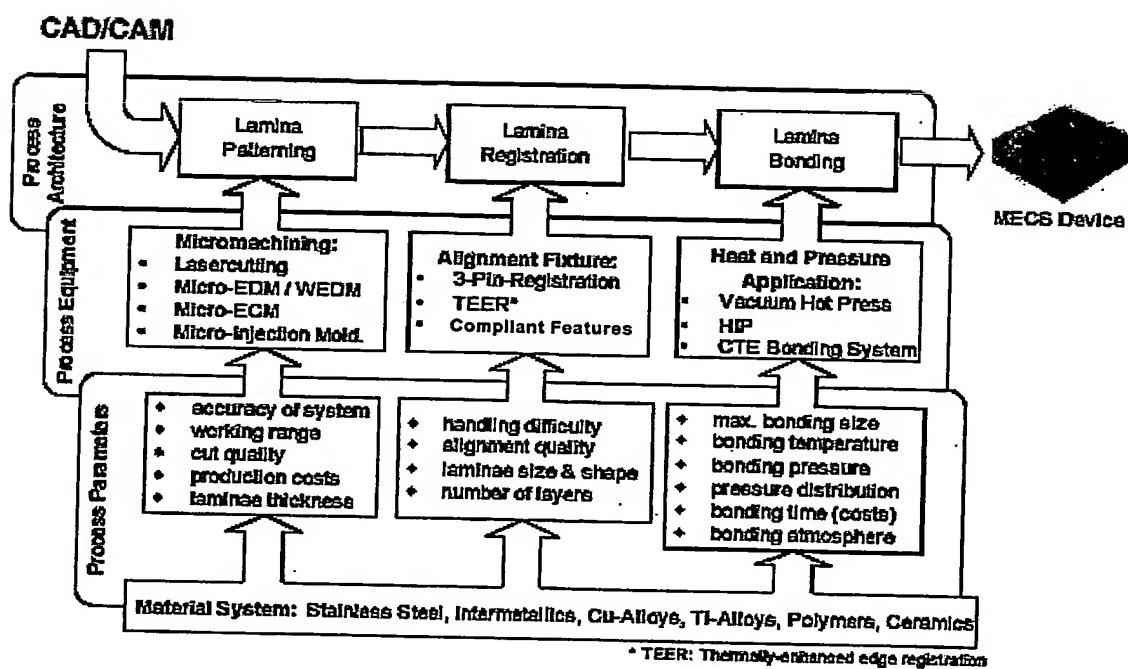


FIG. 3



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FIG. 4

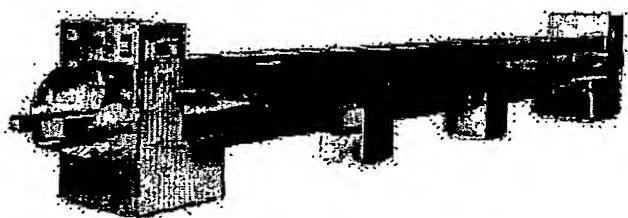


FIG. 5

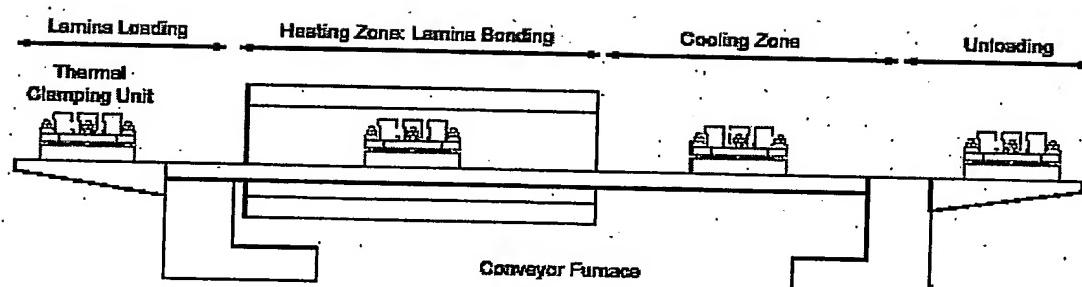


FIG. 6

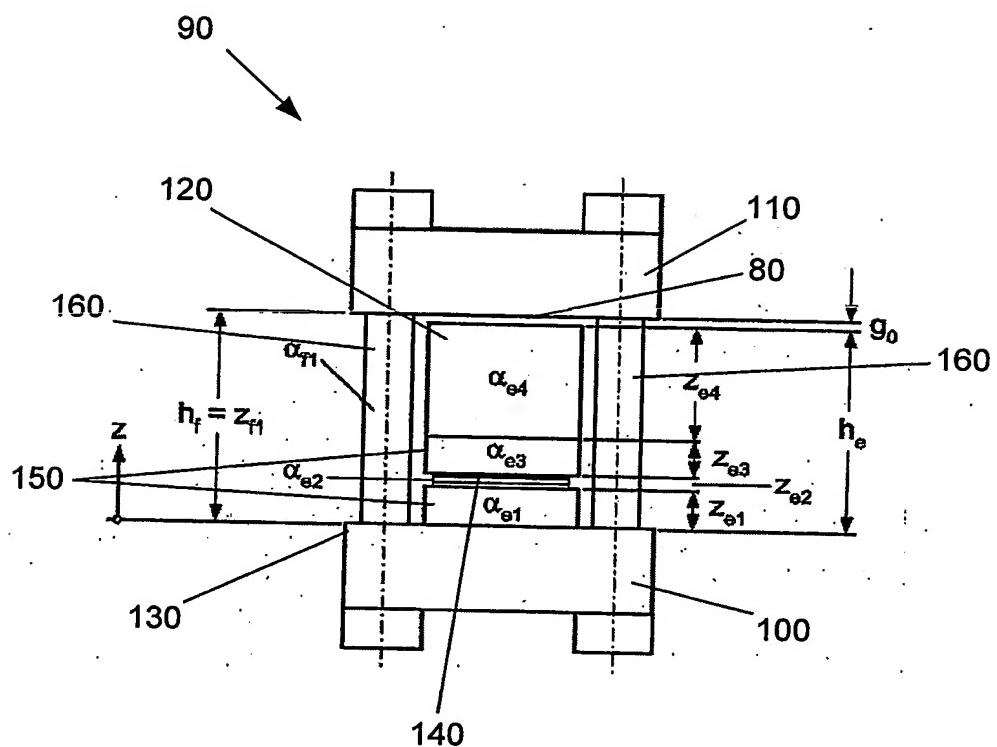


FIG. 7

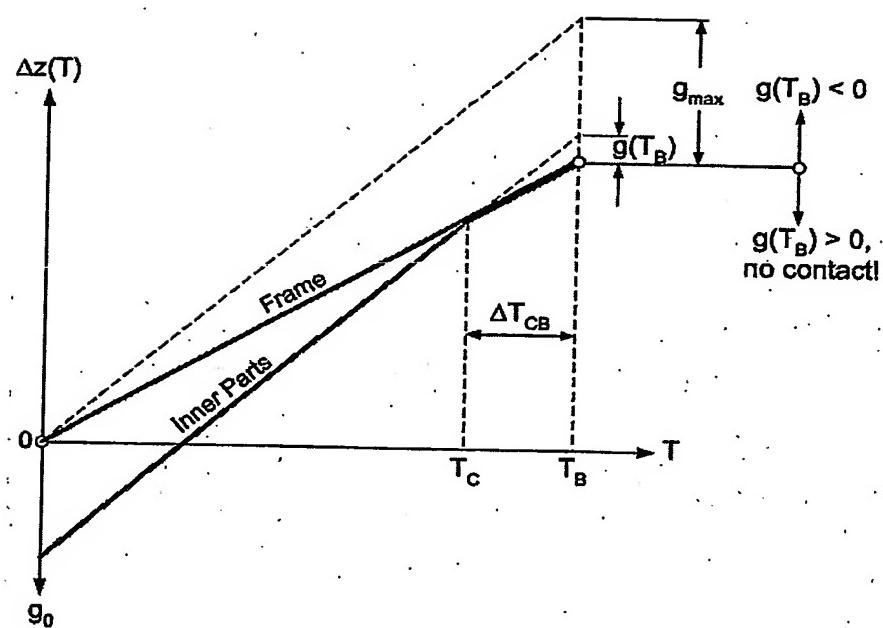


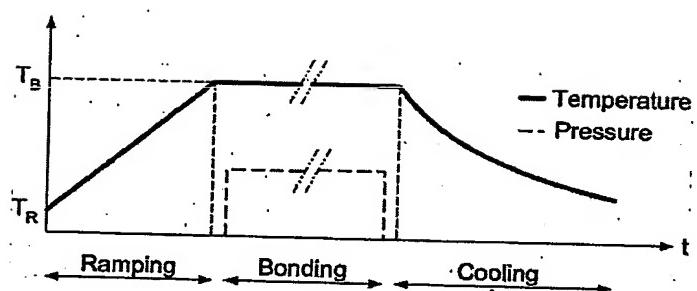
FIG. 8

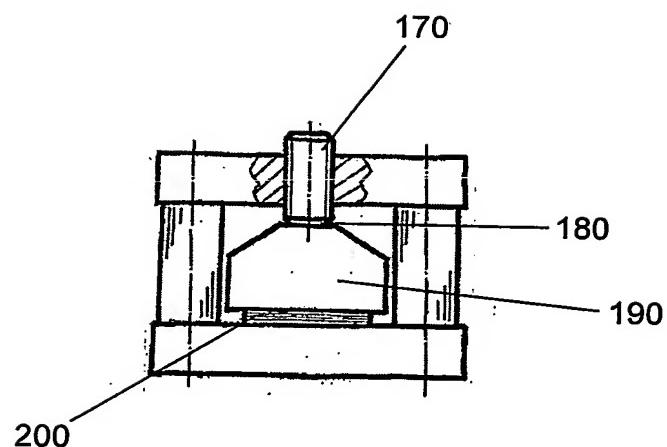
FIG. 9

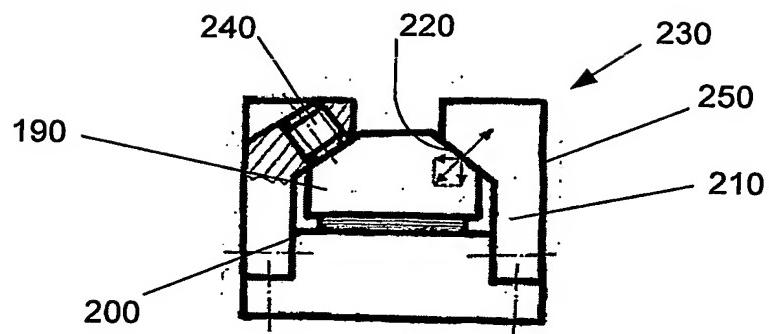
FIG. 10

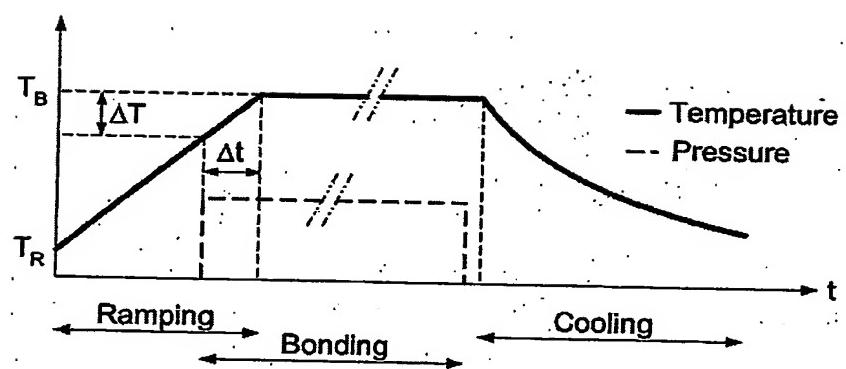
FIG. 11

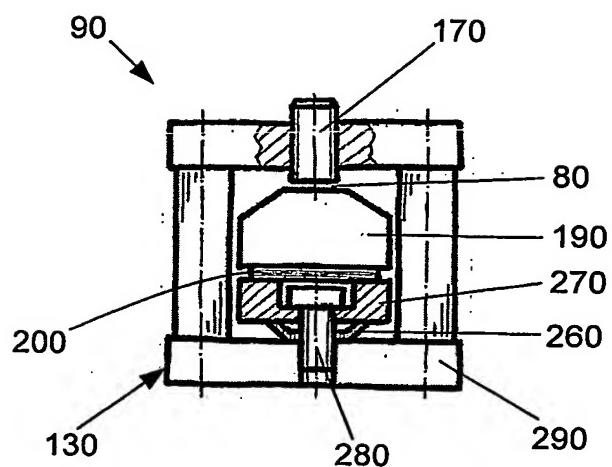
FIG. 12

FIG. 13

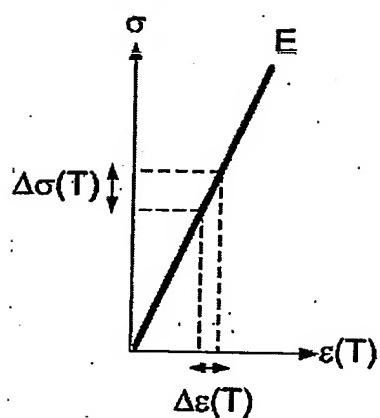


FIG. 14

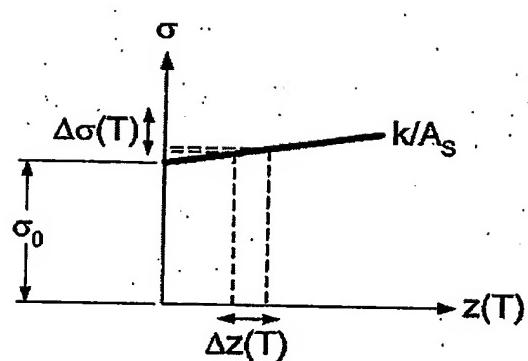


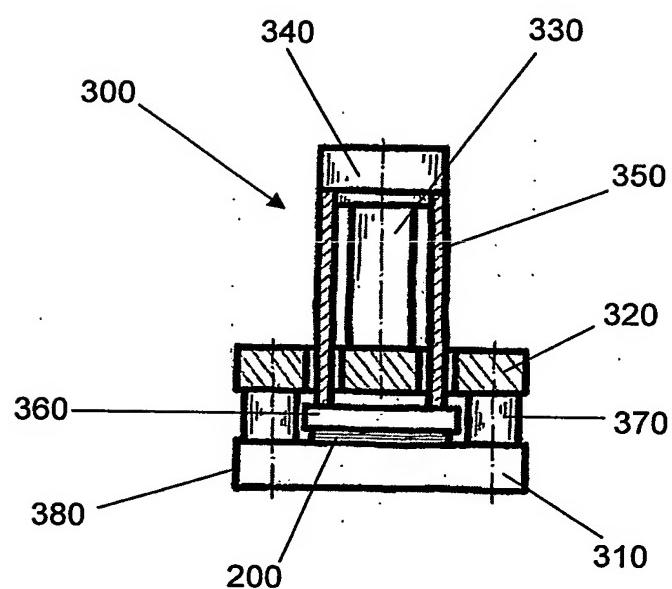
FIG. 15

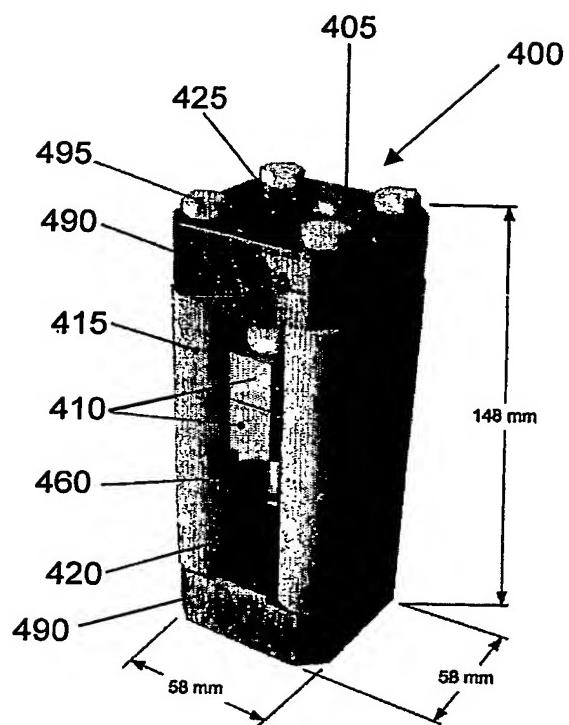
FIG. 16a

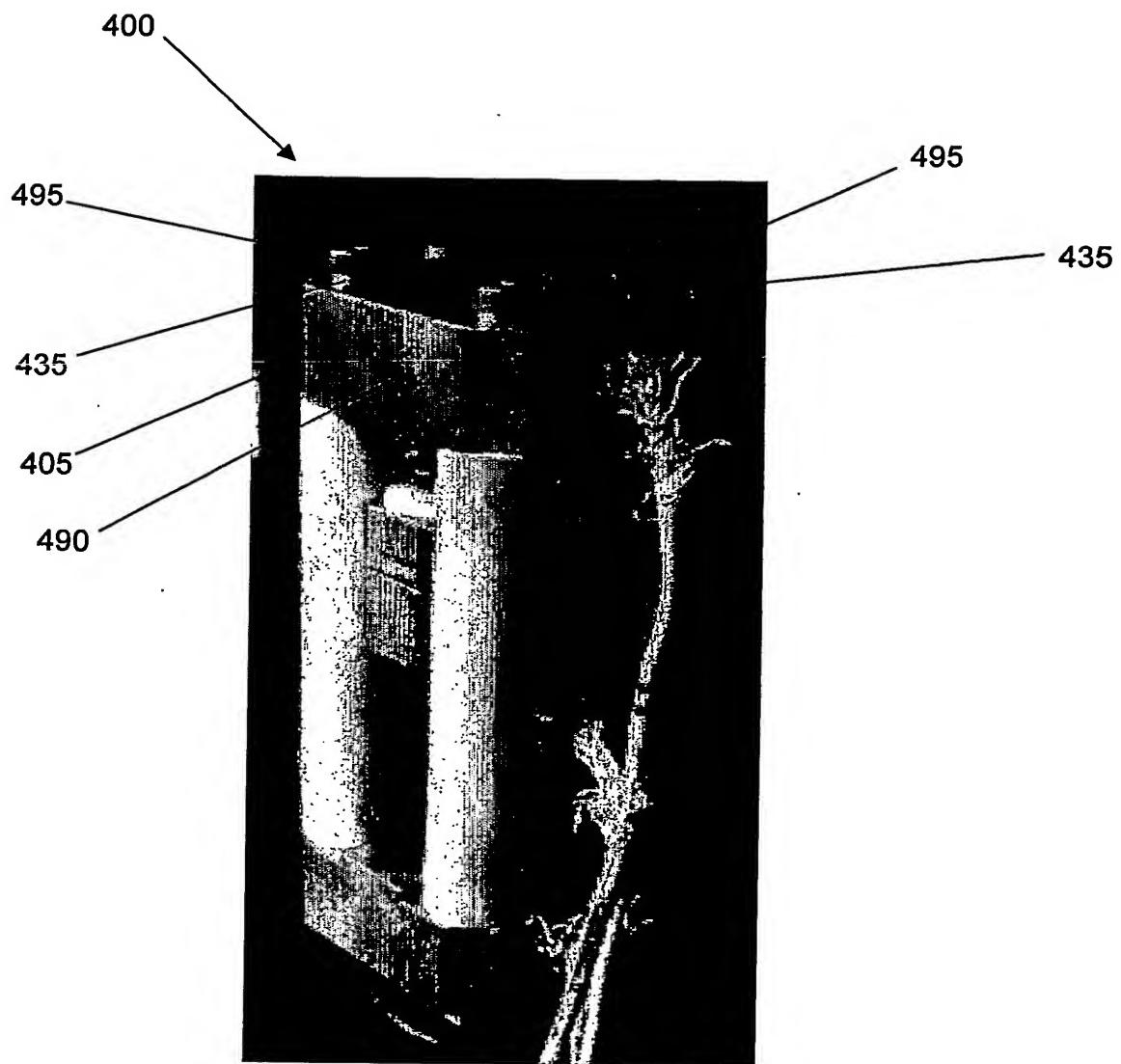
FIG. 16b

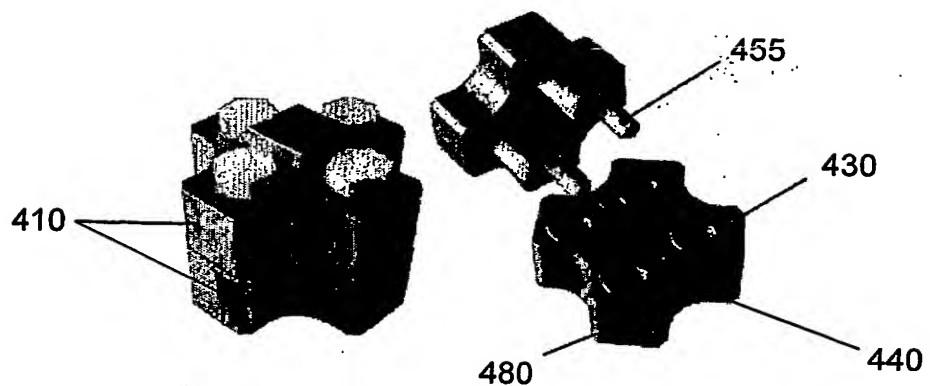
FIG. 17

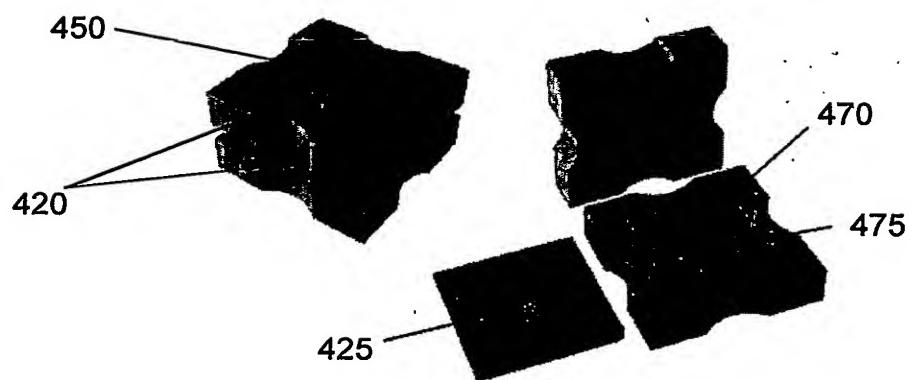
FIG. 18

FIG. 19

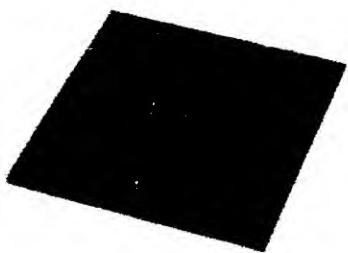


FIG. 20

Means and 95.0 Percent Confidence Intervals

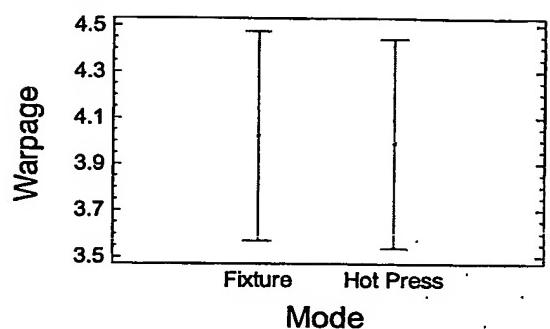


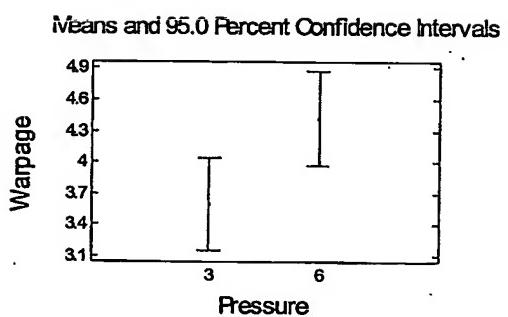
FIG. 21

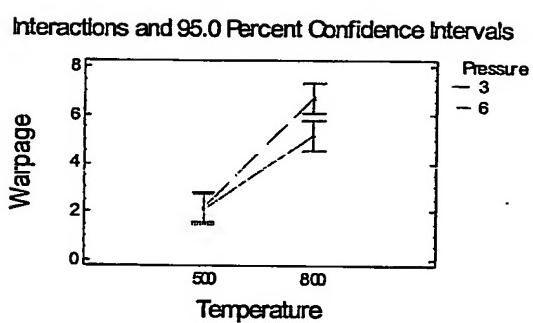
FIG. 22

FIG. 23

Interactions and 95.0 Percent Confidence Intervals

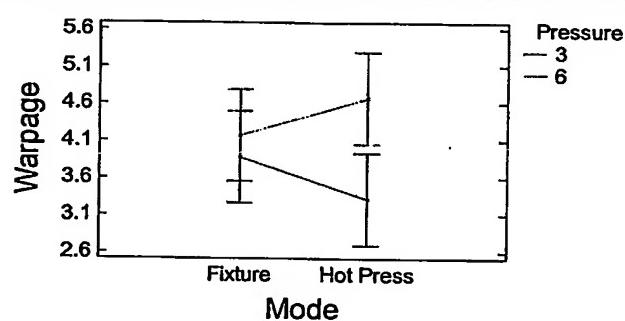


FIG. 24

The figure consists of two side-by-side scanning electron micrographs (SEM). Both images show a material structure with pores. The left image, titled "Hot Press 800°C / 6MPa / 60min", displays a more uniform and finer distribution of pores. The right image, titled "ΔCTE-Fixture 800°C / 6MPa / 60min", shows a more heterogeneous distribution with larger, more irregularly shaped pores.

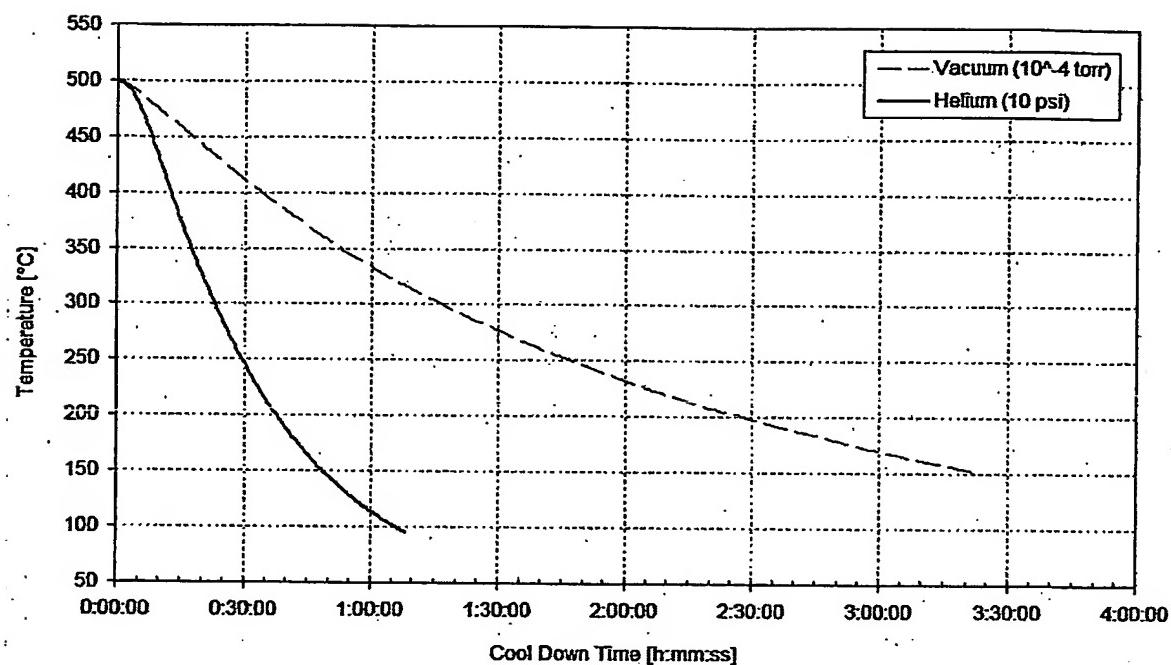
FIG. 25

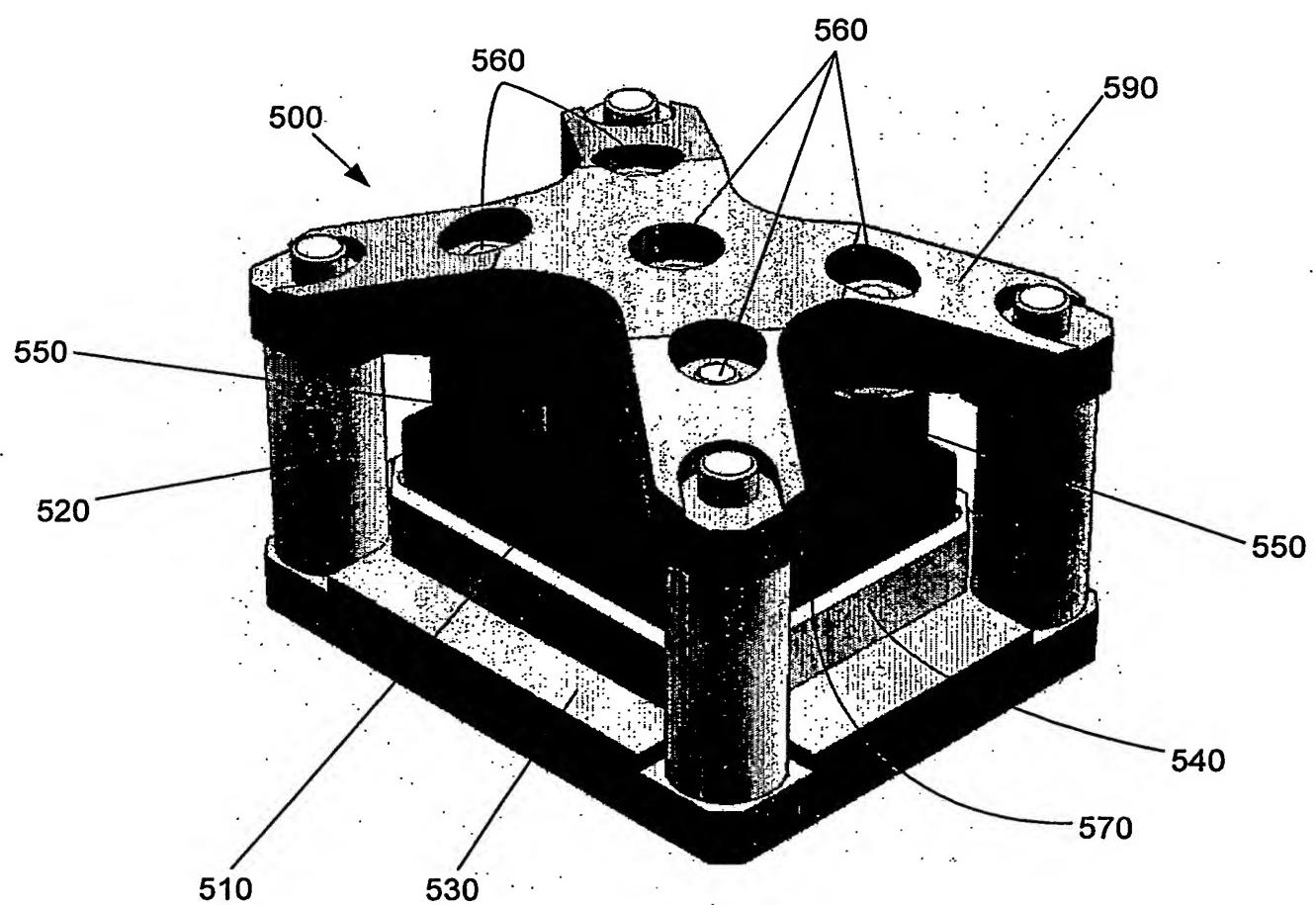
FIG. 26

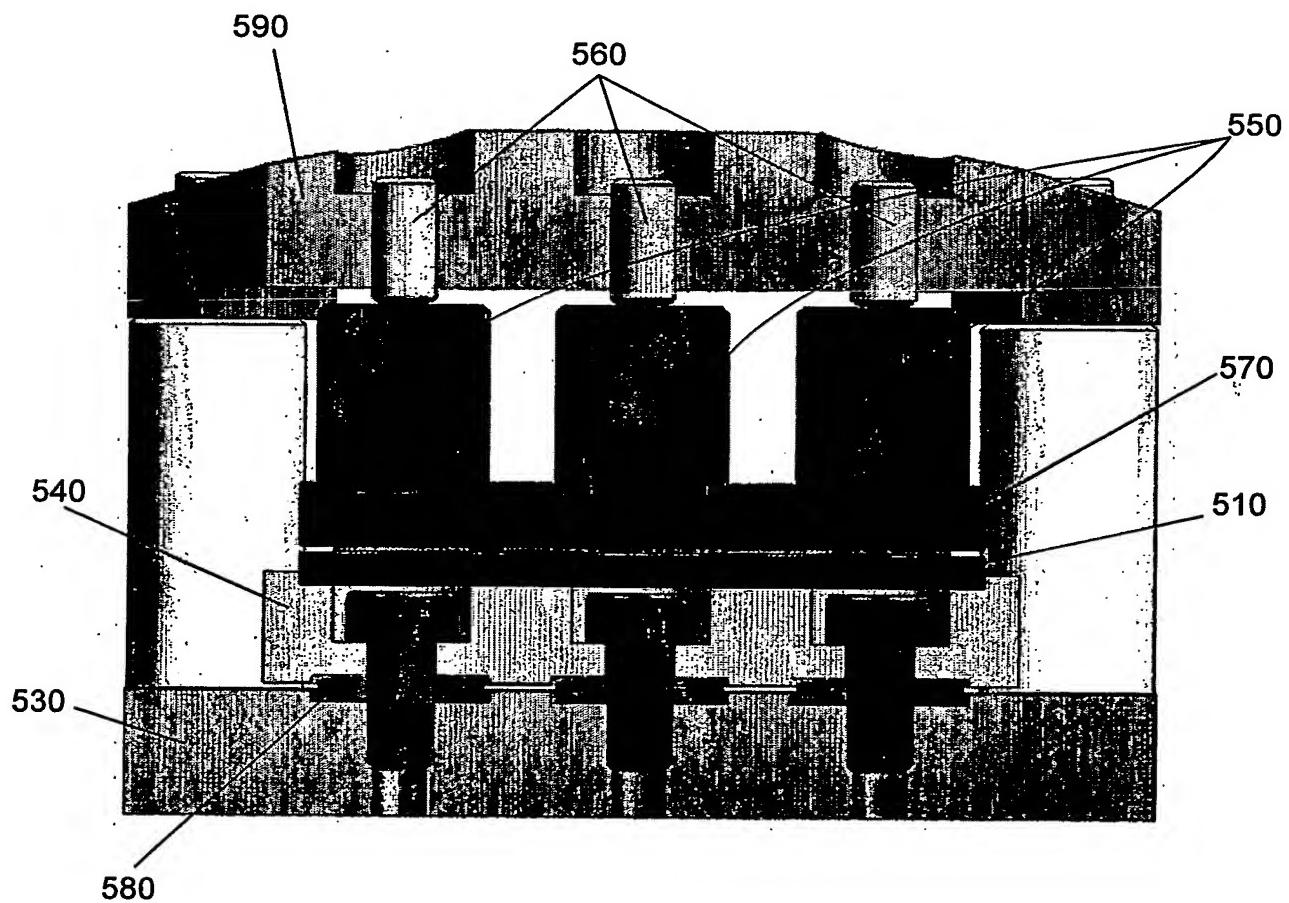
FIG. 27

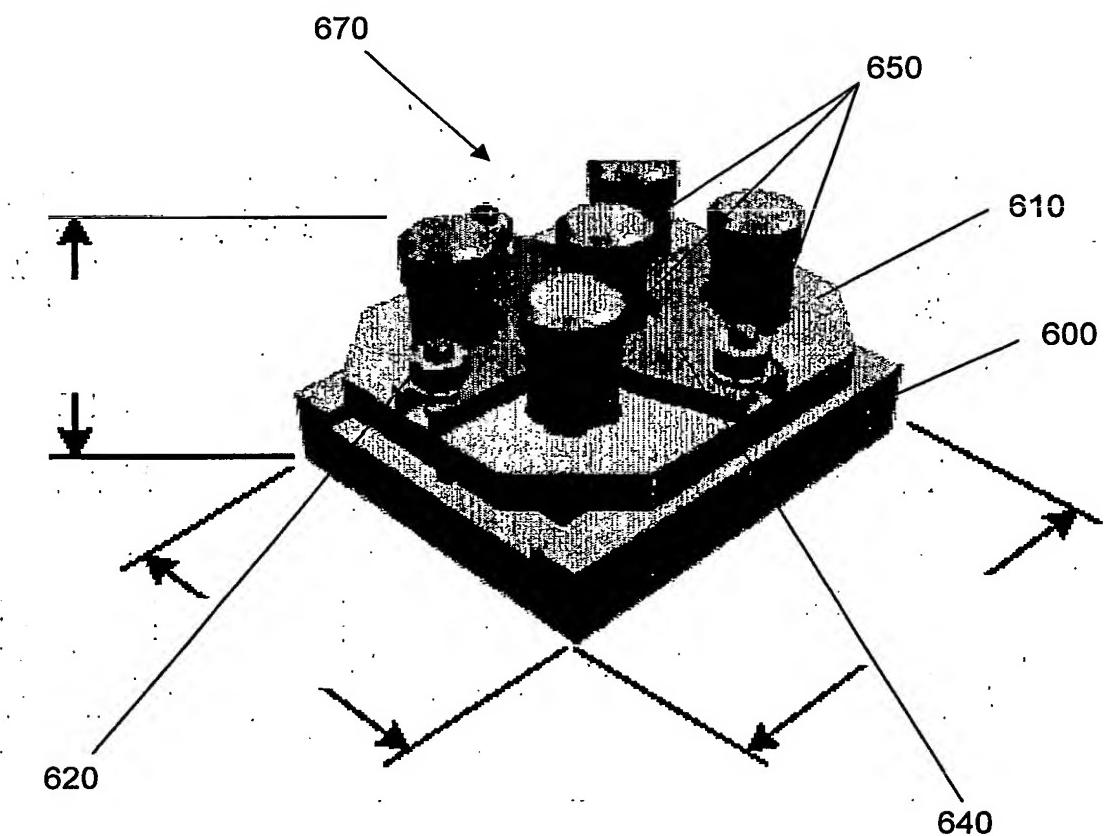
FIG. 28

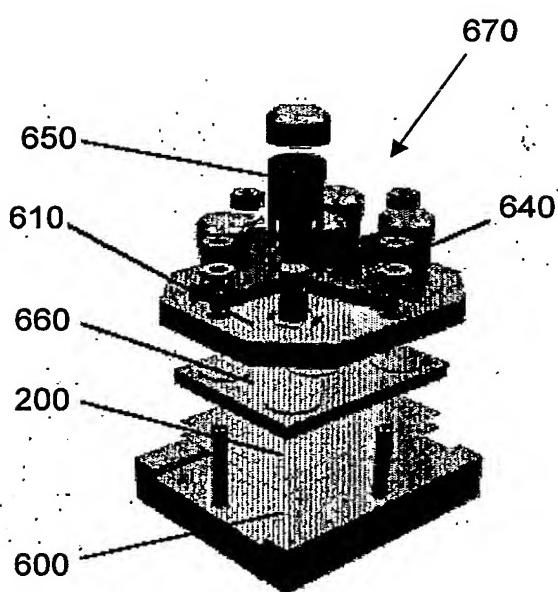
FIG. 29

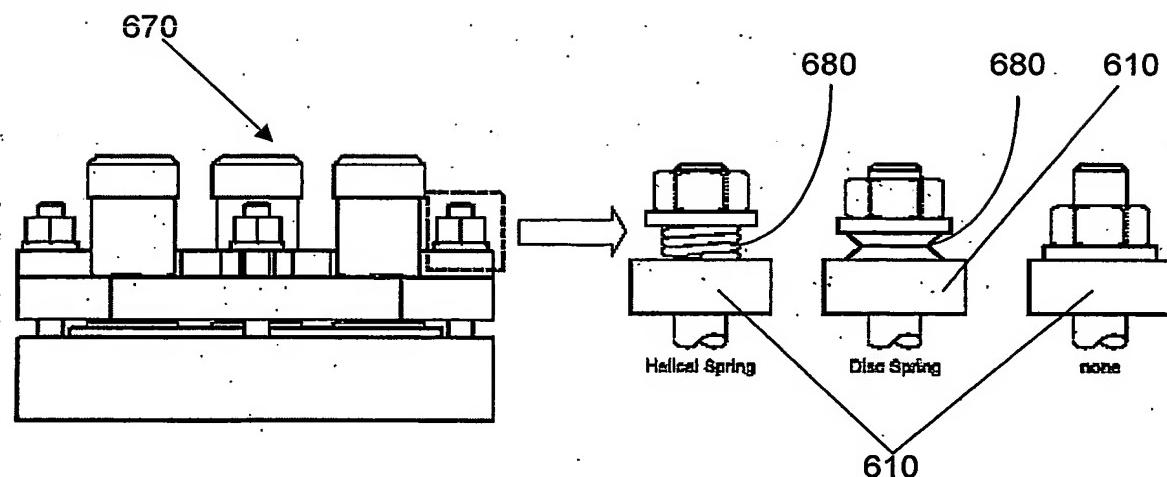
FIG. 30

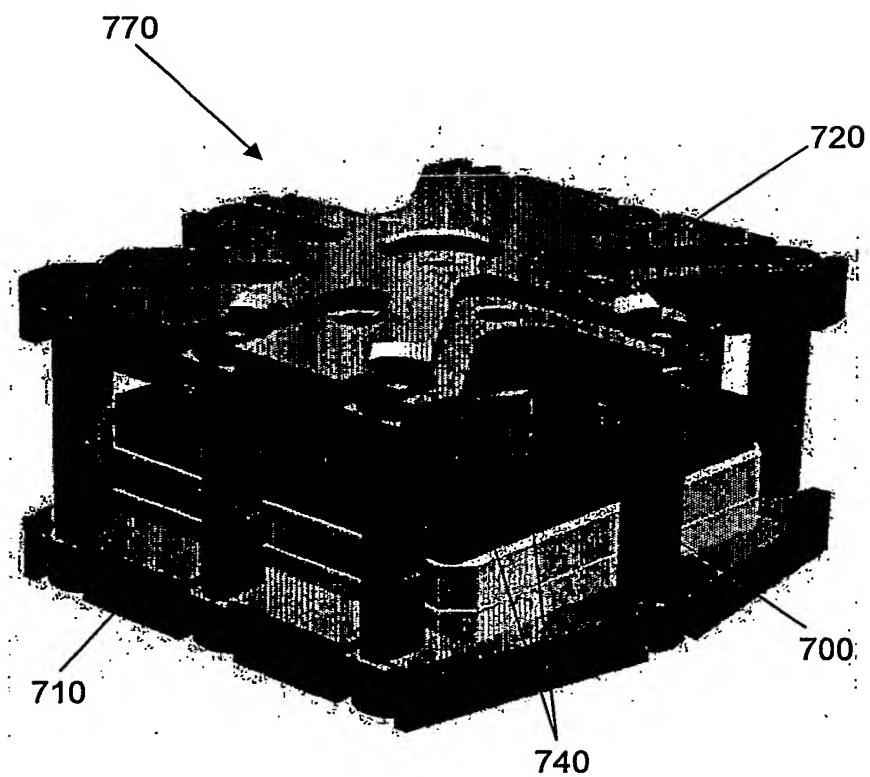
FIG. 31

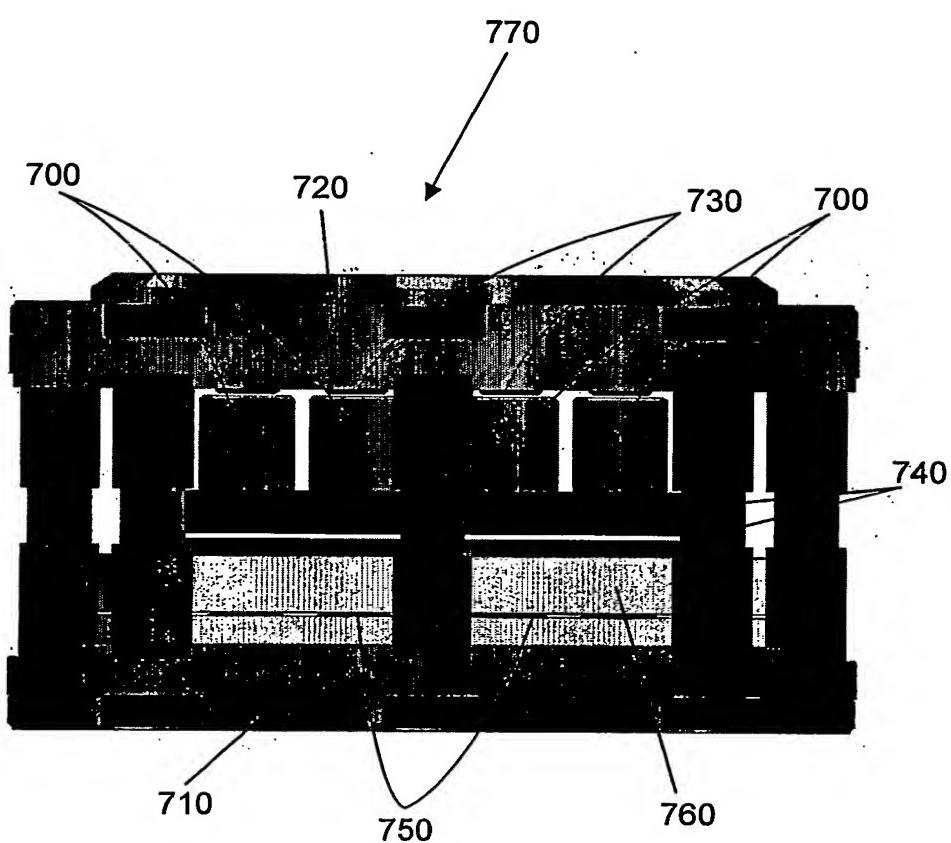
FIG. 32

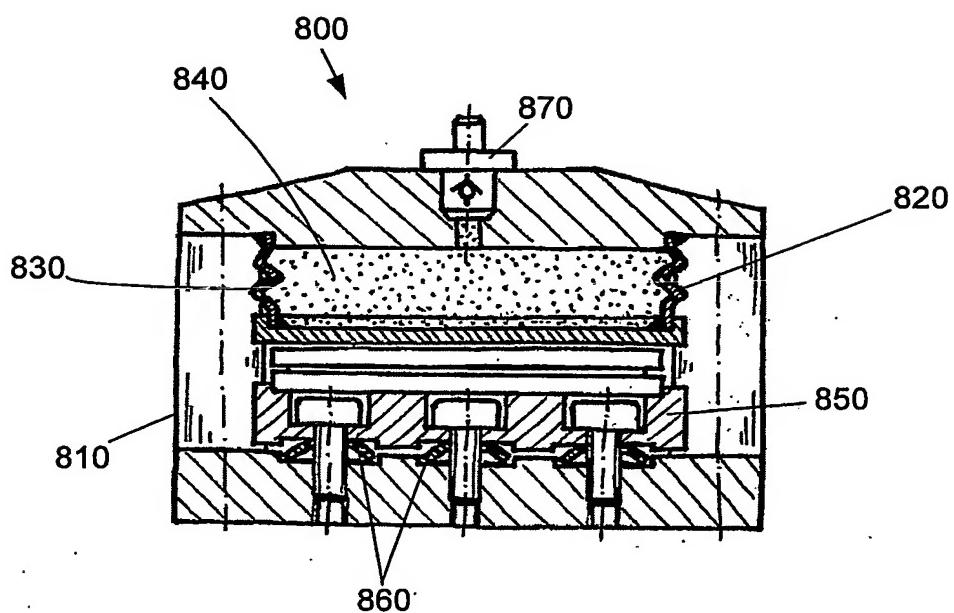
FIG. 33

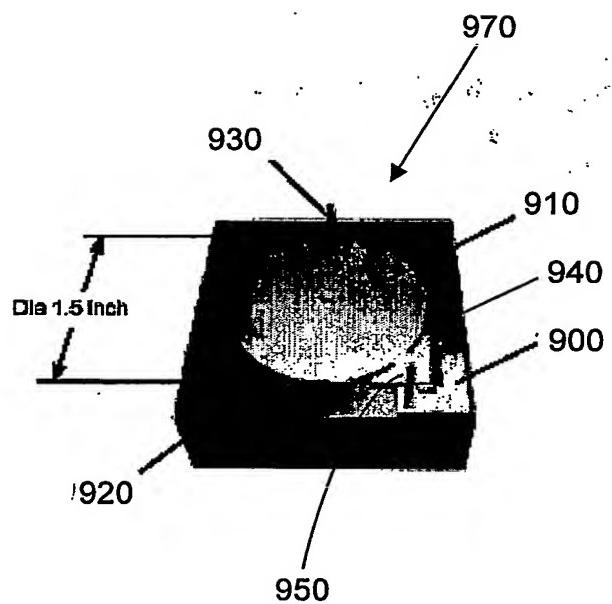
FIG. 34

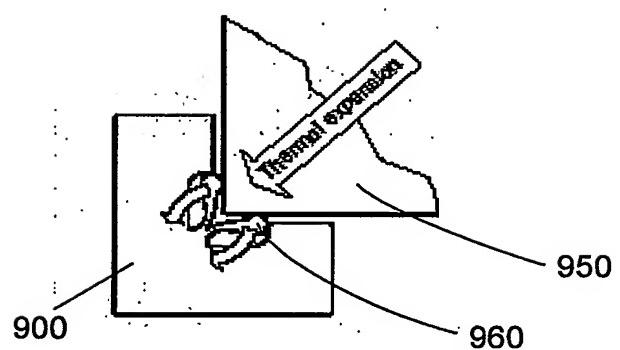
FIG. 35

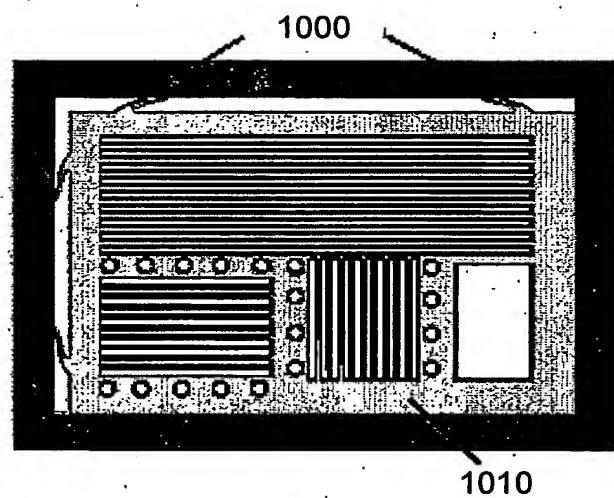
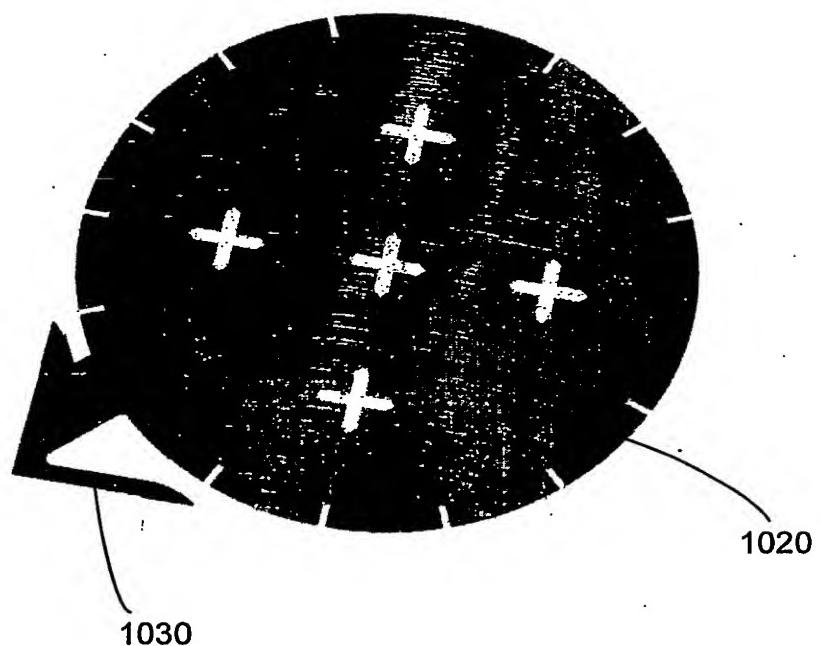
FIG. 36a

FIG. 36b

37a

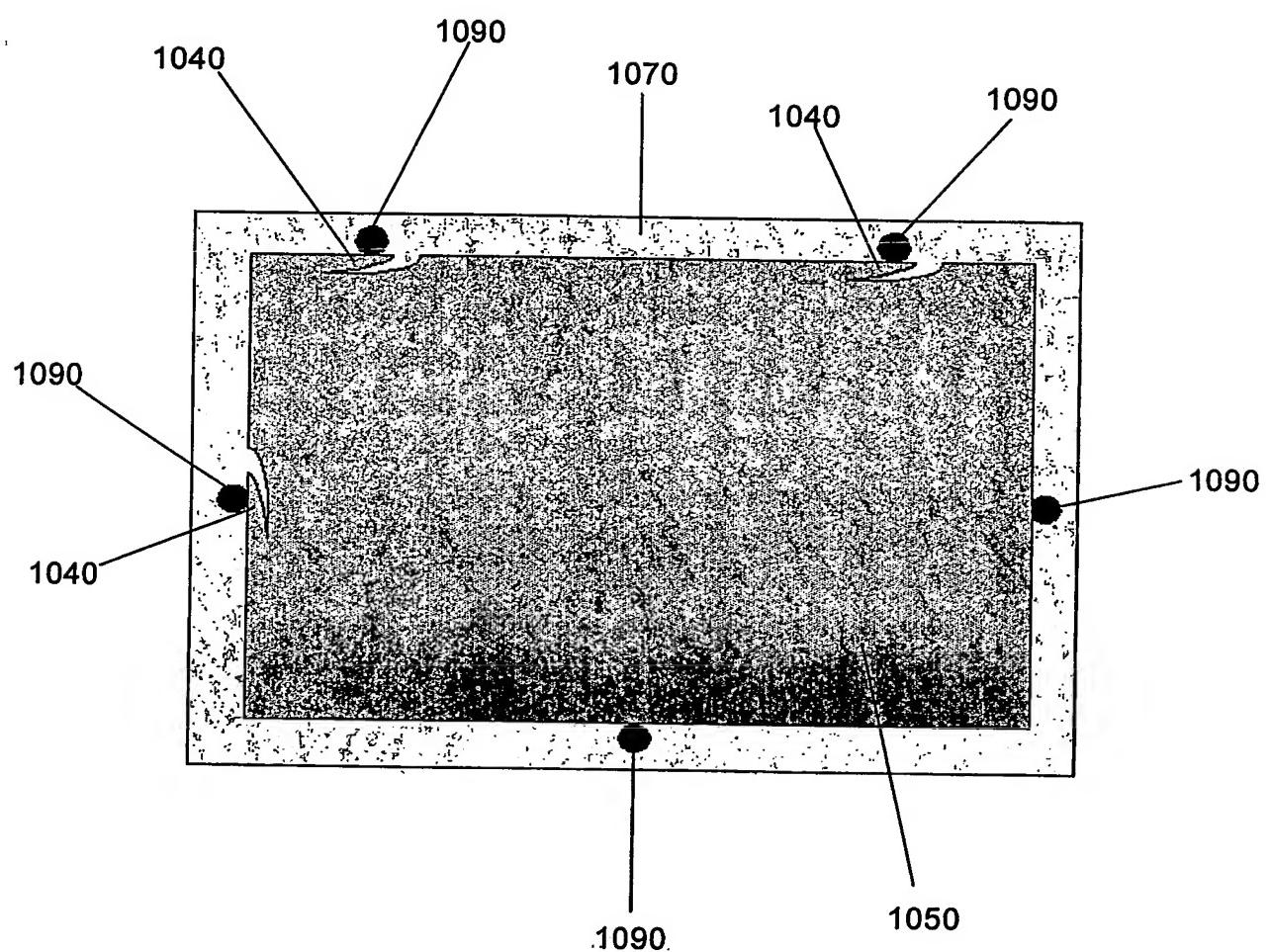


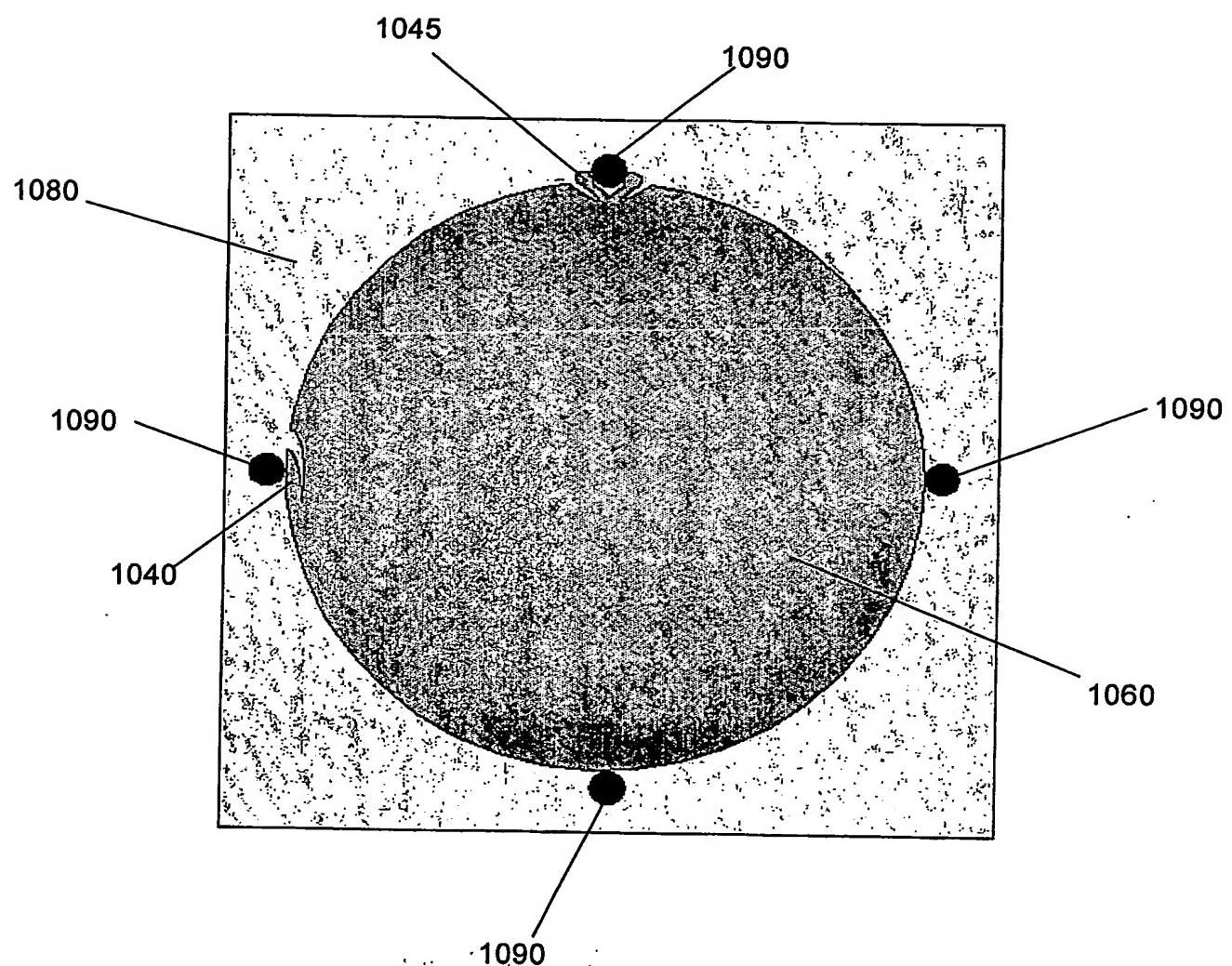
FIG. 37b

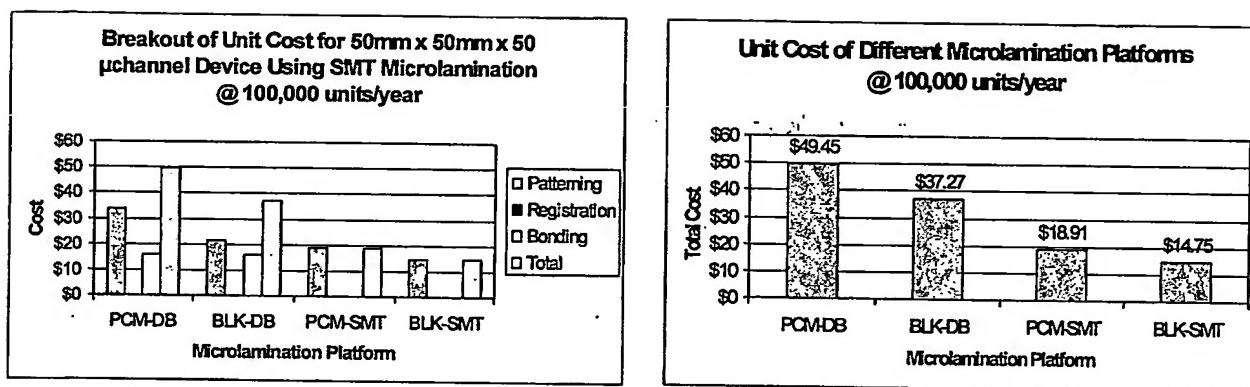
FIG. 38

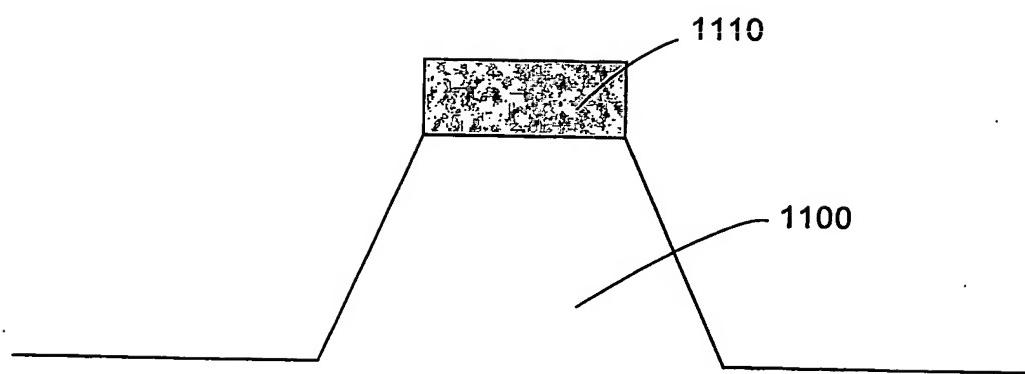
FIG. 39

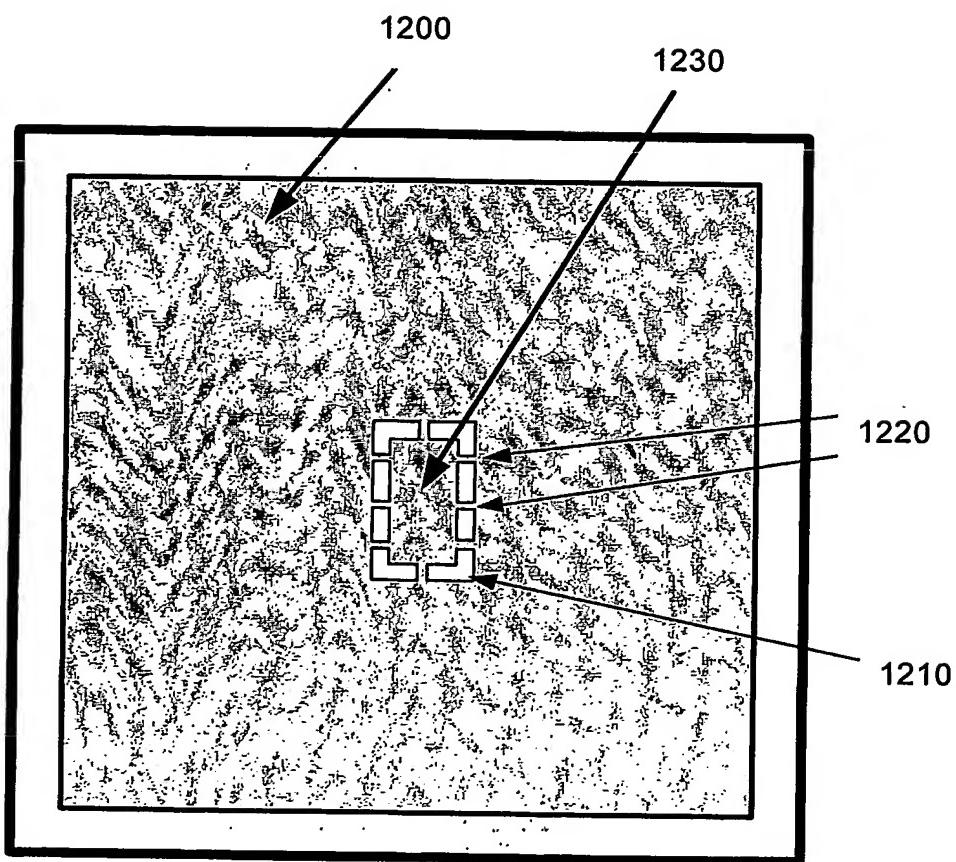
FIG. 40

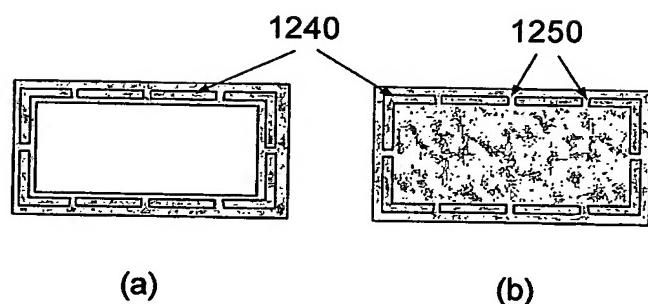
FIG. 41

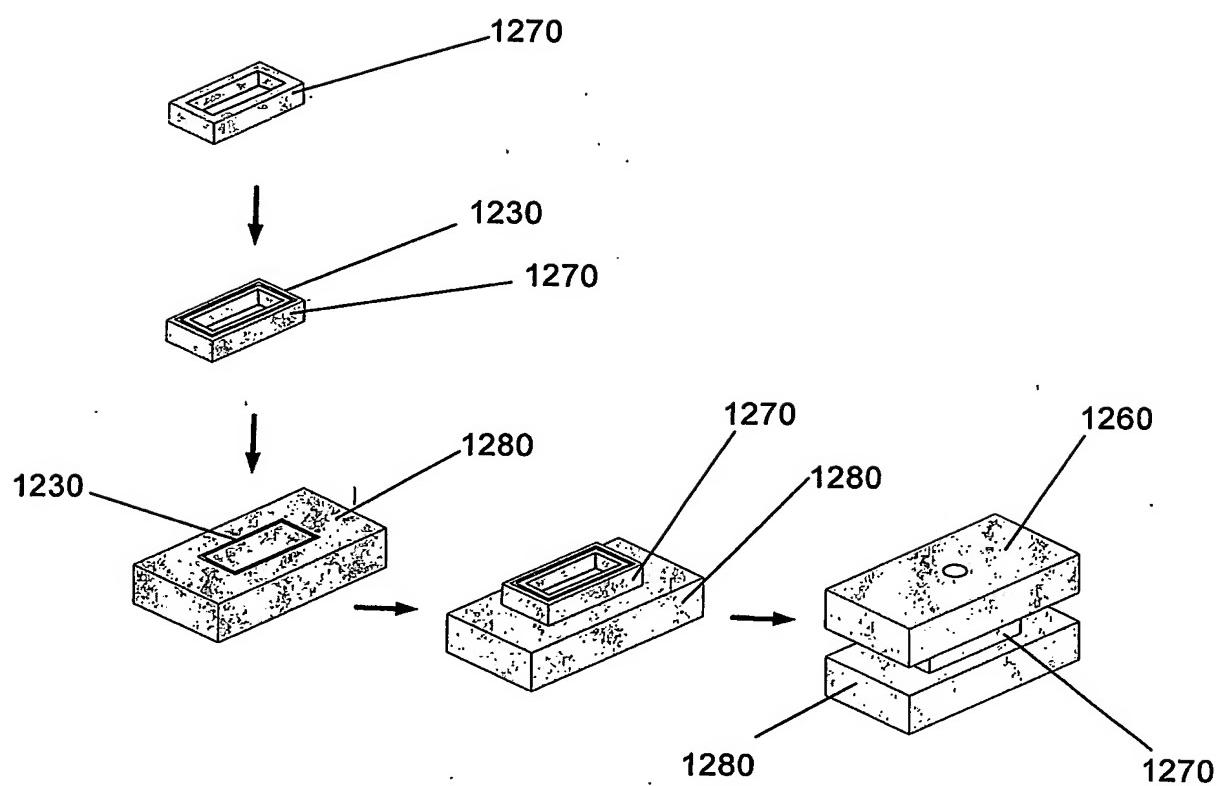
FIG. 42

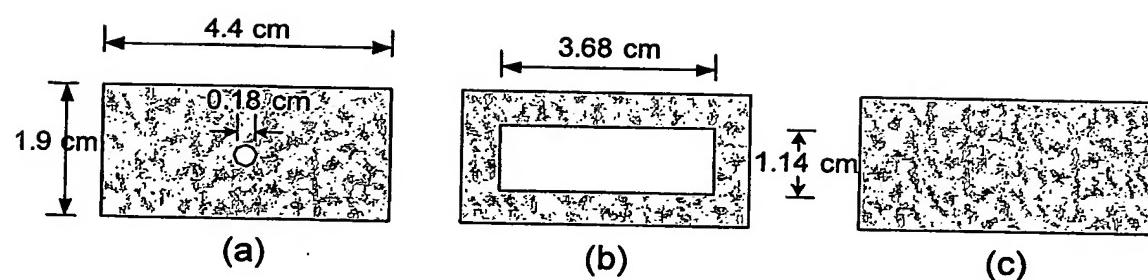
FIG. 43

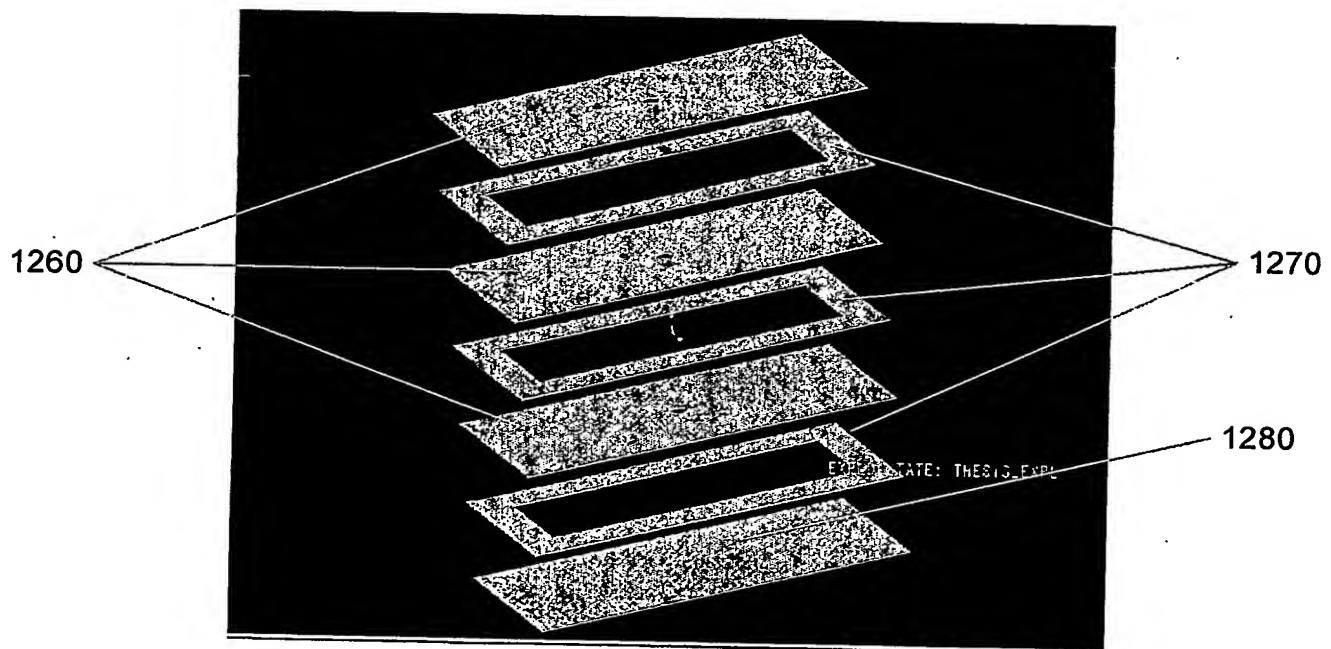
FIG. 44

FIG. 45

Parameter	Value
Area of solder paste printed (A_p)	1.342 cm ²
Height of printed solder paste (t_p)	0.051 cm ²
Solids Loading (S).	50%
Spacer Area (A)	4.258 cm ²
Lamina thickness (t)	0.020 cm

FIG. 46

		Channel		
		Top	Middle	Bottom
Sample 1	Average Channel Height (microns)	273.7	273.0	263.0
	Standard Deviation	1.03	1.79	2.83
Percentage variation: $\pm 0.6\%$				
Sample 2	Average Channel Height (microns)	279.0	275.7	270.0
	Standard Deviation	2.83	5.16	1.09
Percentage variation: $\pm 1.1\%$				
Sample 3	Average Channel Height (microns)	268.7	272.3	263.0
	Standard Deviation	2.94	2.06	4.19
Percentage variation: $\pm 1.1\%$				
Overall Empirical Mean Channel Height		$270.9 \pm 1.2\%$		
Theoretical Mean Channel Height		267.2		

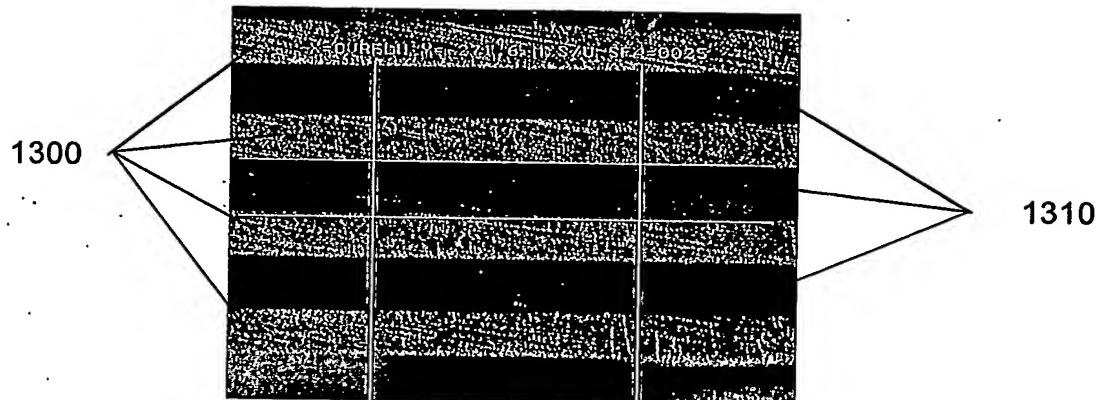
FIG. 47

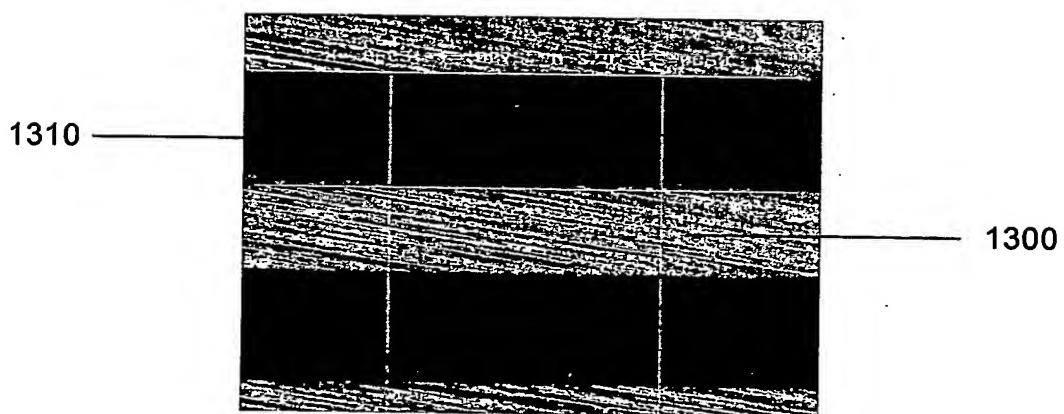
FIG. 48

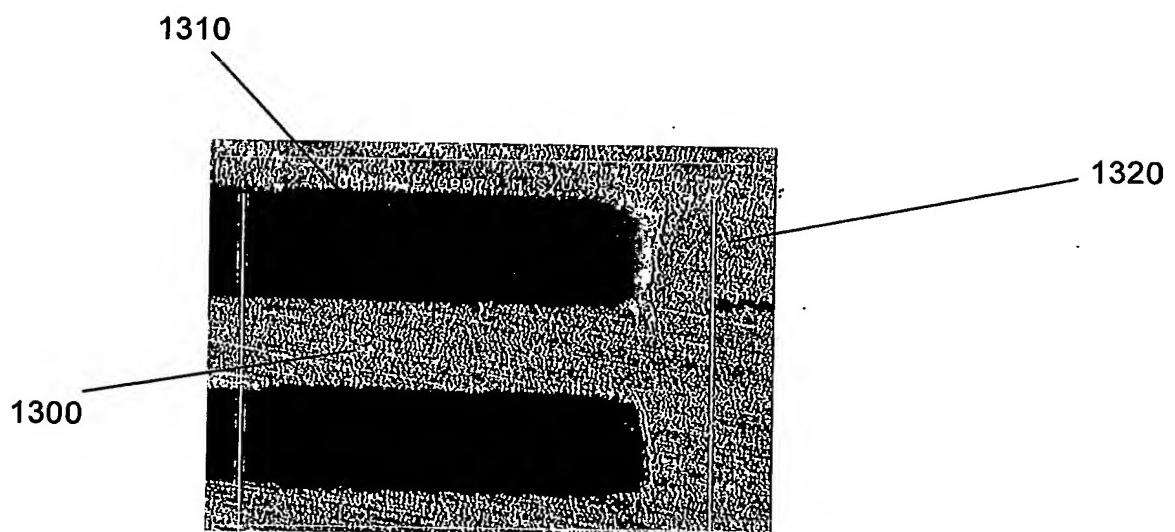
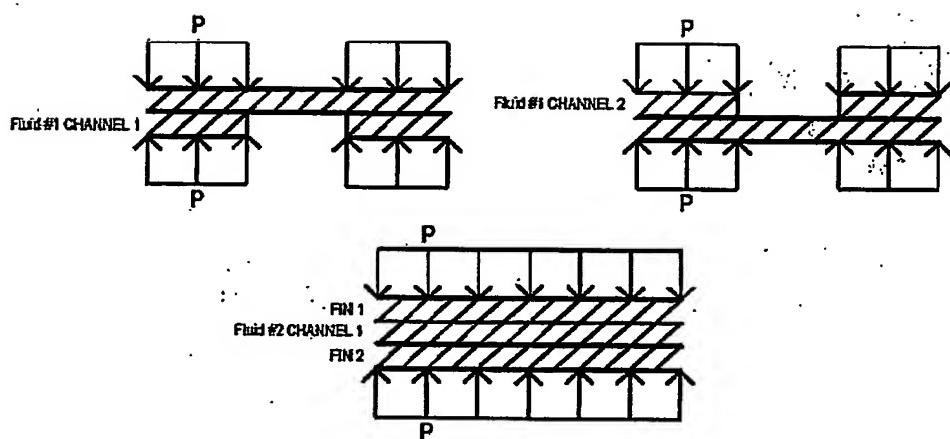
FIG. 49

FIG. 50

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